

IN THE CLAIMS:

Please amend the claims as shown below. This listing of claims will replace all prior versions and listings of claims in the Application:

1. (previously presented) A data preservation system for flash memory systems with a host system, the flash memory system receiving a host system power supply and energizing a supplemental energy store therewith and communicating with the host system via an interface bus, wherein, upon loss of the host system power supply, the flash memory system actively isolates the connection to the host system power supply and isolates the interface bus and employs the supplemental energy store to complete write operations to flash memory.

2. (previously presented) A data preservation system for flash memory systems receiving a power supply and experiencing power failure thereof, the data preservation system comprising:

a detection circuit in communication with the power supply;

an auxiliary power source;

an isolation circuit isolating the auxiliary power source upon a power failure; and

controller circuitry configured to store data in volatile memory into flash memory.

3. (previously presented) The data preservation system of Claim 2, wherein the volatile memory comprises a tri-state buffer.

4. (previously presented) The data preservation system of Claim 2, wherein the detection circuit comprises a voltage detector.

5. (previously presented) The data preservation system of Claim 2, wherein the auxiliary power source comprises capacitors.

6. (previously presented) A method of preserving data in flash memory systems experiencing a power failure, the method comprising:

charging an auxiliary power source with a supply voltage;

detecting a loss of power of the supply voltage;

isolating the auxiliary power source; and

utilizing the auxiliary power source to store data stored in volatile memory into flash memory.

7. (previously presented) The method of Claim 6, wherein isolating the auxiliary power source comprises opening a relay interconnecting the supply voltage and the auxiliary power source.

8. (previously presented) The method of Claim 6, further comprising isolating a host system data bus from the flash memory system.

9. (currently amended) A memory device storing data stored in volatile memory into non-volatile memory wherein, upon loss of power to the memory device, at least one external connection of the memory device is isolated.

10. (currently amended) The memory device of Claim 9, wherein the external connection comprises ~~at least one of~~ a connection to a power supply.

11. (currently amended) The memory device of Claim 9, wherein the external connection comprises ~~at least one of~~ a connection to a data interface.

12. (currently amended) The memory device of Claim 9, wherein the non-volatile memory comprises a flash memory chip.

13. (currently amended) A method of storing data from volatile memory to non-volatile memory, the method comprising:

monitoring a power supply; and

upon detecting a power failure of the power supply, isolating the non-volatile memory from external connections.

14. (previously presented) The method of Claim 13, wherein isolating the non-volatile memory from external connections comprises isolating a power supply connection.

15. (previously presented) The method of Claim 13, wherein isolating the non-volatile memory from the external connections comprises isolating a data interface connection.

16. (previously presented) The method of Claim 13, wherein isolating the non-volatile memory from external connections comprises isolating a power supply connection and a data interface connection.

17. (previously presented) A data preservation system comprising:
a power detector;
an auxiliary power source;
an isolator adapted to isolate the auxiliary power source; and
a data store storing data into non-volatile memory powered by the auxiliary power source.

18. (currently amended) The system of Claim 17, wherein the non-volatile memory comprises a flash memory-card.

19. (currently amended) A method for storing data in a memory device, the method comprising:

detecting a power reduction;

decoupling an auxiliary power source; and

storing data into non-volatile memory using auxiliary power source.

20. (previously presented) The method of Claim 19, further comprising decoupling a volatile memory from external connections.

21. (previously presented) The method of Claim 20, further comprising storing data from the volatile memory into the non-volatile memory.

22. (currently amended) Means for preserving data in a memory device comprising:
means for detecting loss of power;
means for providing auxiliary power;
means for isolating the means for preserving data upon detection of loss of power;
and

means for storing data in a non-volatile manner.